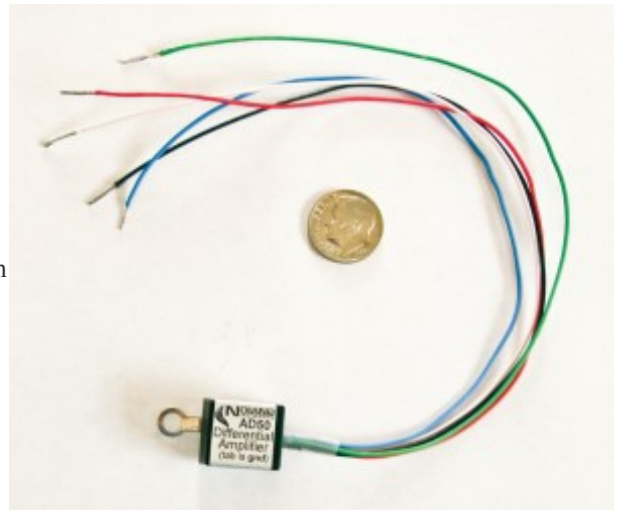


AD50 Differential Amplifier

The AD50 is a versatile general-purpose differential amplifier which will interface many common engine sensors to data converter systems such as the RS11 and MD33. Sensors supported include knotmeter (paddle-wheel) transducers, flowmeters, inductive pickups, thermocouples, current shunts, and most other pulsed, analog, or alarm sensors which have low output voltages. The unique feature of differential amplifiers is that they amplify only the difference between their “+/-” inputs and ignore the input DC (common mode) voltage.

The extremely high input impedance of the AD50 will not load down or alter the calibration of most common sensors. Input voltages up to 30 V will not affect the AD50 gain or output. Gain is selectable from 12v/v to 50v/v by proper connection of the Gain (green) wire.

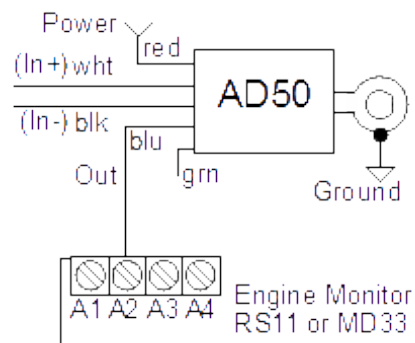


AD50 Specifications:

Supply voltage/current:	8 – 30 Vdc / 10mA
Max Output Level:	5.5 volts
Input Common Mode Ranges:	8 – 30 volts
Input Impedance:	> 100kOhms
Bandwidth:	25 kHz
Voltage Gain:	12 v/v (Green to ‘Ground’)
(Green wire connected to...)	20 v/v (Green open)
	50 v/v (Green to ‘Out’)
Size/weight:	.4” x 5” x .6” / 1oz.

Warranty- 2 year replacement.

Typical Installation:



NOLAND
ENGINEERING
728 E. Lincoln Avenue, #3
Melbourne, FL 32901
phone: (321) 951-7329
fax: (321) 951-8773
email: info@nolandeng.com
web: <http://www.nolandeng.com>